

Claims

What is claimed is:

1. 1. A method for obtaining an approval of an electronic fund transfer disbursement file from a user of a remote system and transferring the electronic fund transfer disbursement file to a payments processor, the method comprising:
 2. generating a digest by performing a hash on the electronic fund transfer disbursement file;
 3. transferring the digest to the remote system;
 4. transferring authorization control code to the remote system, the authorization control code driving the remote system to perform the following steps:
 5. obtain a digital signature of authenticated attributes, the authenticated attributes including the digest;
 6. generate an authorization response, the authorization response including the digital signature;
 7. receiving the authorization response from the remote system; and
 8. transferring an electronic funds submission to the payments processor, the electronic funds submission comprising the payment transaction file and at least a portion of the authorization response comprising the digital signature.
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1. 2. The method of claim 1 wherein:
 2. the authorization control code further provides for the remote system to:
 3. generate additional message attributes; and
 4. combine the additional message attributes with the digest to generate the authenticated attributes; and
 5. the digital signature comprises a digital signature of a hash of the authenticated attributes.
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1. 3. The method of claim 2, wherein the authorization control code further drives the

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2 remote system to:

3 generate and pass a dummy data string to a signing component to obtain a
4 dummy authentication data structure, the dummy authentication data structure
5 comprising a dummy digital signature;

6 pass the authenticated attributes to the signing component to obtain the digital
7 signature;

8 combine the digital signature with at least a portion of the dummy authentication
9 data structure by replacing the dummy digital signature with the digital signature to
10 generate an authentication data structure; and

11 include the authentication data structure in the authorization response.

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1 4. The method of claim 3; wherein:

2 the dummy data structure further comprises a dummy digest; and

3 the authorization control code further drives the remote system to combine the
4 digest with the dummy authentication data structure to generate the authentication data
5 structure by replacing the dummy digest with the digest.

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1 5. The method of claim 4:

2 further comprising authenticating the user of the remote system by:

3 obtaining logon credentials identifying the user of the remote system;

4 determining whether the logon credentials match those of an authorized
5 user; and

6 the step of transferring the authorization request to the remote system occurs
7 only if the logon credentials match those of an authorized user.

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1 6. The method of claim 5, further comprising authenticating the user of the remote
2 system to the payments processor by:

3 receiving an authentication challenge from the payments processor;

4 transferring the authentication challenge to the remote system;

5 receiving an authentication response from the remote system; and
6 transferring the authentication response to the payments processor.

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1 7. A method for obtaining an approval of an electronic fund transfer disbursement
2 file from a user of a remote system and transferring the electronic fund transfer
3 disbursement file to a payments processor, the method comprising:

4 generating a digest by performing a hash on the electronic fund transfer
5 disbursement file;

6 transferring the digest to the remote system;

7 receiving an authorization response from the remote system, the authorization
8 response comprising a digital signature of authenticated attributes, the authenticated
9 attributes including the digest;

10 transferring an electronic funds submission to the payments processor over a
11 secure connection, the electronic funds submission comprising the payment transaction
12 file and at least a portion of the authorization response comprising the digital signature.

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1 8. The method of claim 7 wherein:

2 the authorization control code further provides for the remote system to:

3 generate additional message attributes; and
4 combine the additional message attributes with the digest to generate the
5 authenticated attributes; and

6 the digital signature comprises a digital signature of a hash of the authenticated
7 attributes.

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1 9. The method of claim 8, wherein the remote system:

2 generates and passes a dummy data file to a signing component to obtain a
3 dummy authentication data structure, the dummy authentication data structure
4 comprising a dummy digital signature;

5 passes the authenticated attributes to the signing component to obtain the digital

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6 signature;

7 combines the digital signature with at least a portion of the dummy authentication
8 data structure by replacing the dummy digital signature with the digital signature to
9 generate an authentication data structure; and

10 includes the authentication data structure in the authorization response.

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1 10. The method of claim 9, wherein:

2 the dummy data structure further comprises a dummy digest; and

3 the remote system further combines the digest with the dummy authentication
4 data structure to generate the authentication data structure by replacing the dummy
5 digest with the digest.

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1 11. The method of claim 10, further comprising:

2 authenticating the user of the remote system by:

3 obtaining logon credentials identifying the user of the remote system;

4 determining whether the logon credentials match those of an authorized user;

5 and

6 the step of transferring the authorization request to the remote system occurs

7 only if the logon credentials match those of an authorized user.

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1 12. The method of claim 11, further comprising authenticating the user of the remote
2 system to the payments processor by:

3 receiving an authentication challenge from the payments processor;

4 transferring the authentication challenge to the remote system;

5 receiving an authentication response from the remote system; and

6 transferring the authentication response to the payments processor.

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1 13. The method of claim 7, further comprising passing authorization control code to
2 the remote system, the authorization control code being at least one of executable by

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3 the remote system and interpretable by the remote system for driving the remote
4 system to:

5 obtain the digital signature of the authenticated attributes; and
6 generate the authorization response.

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1 14. The method of claim 13:

2 the authorization control code further provides for the remote system to:

3 generate additional message attributes; and

4 combine the additional message attributes with the digest to generate the
5 authenticated attributes; and

6 the digital signature comprises a digital signature of a hash of the authenticated
7 attributes.

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1 15. The method of claim 14, wherein the authorization control code further drives the
2 remote system to:

3 generate and pass a dummy data file to a signing component to obtain a dummy
4 authentication data structure, the dummy authentication data structure comprising a
5 dummy digital signature;

6 pass the authenticated attributes to the signing component to obtain the digital
7 signature;

8 combine the digital signature with at least a portion of the dummy authentication
9 data structure by replacing the dummy digital signature with the digital signature to
10 generate an authentication data structure; and

11 include the authentication data structure in the authorization response.

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1 16. The method of claim 15:

2 wherein the dummy data structure further comprises a dummy digest; and

3 the authorization control code further drives the remote system to combine the
4 digest with the dummy authentication data structure to generate the authentication data

5 structure by replacing the dummy digest with the digest.

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1 17. The method of claim 16:

2 further comprising authenticating the user of the remote system by:

3 obtaining logon credentials identifying the user of the remote system;

4 determining whether the logon credentials match those of an authorized

5 user; and

6 the step of transferring the authorization request to the remote system occurs

7 only if the logon credentials match those of an authorized user.

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1 18. The method of claim 17, further comprising authenticating the user of the remote
2 system to the payments processor by:

3 receiving an authentication challenge from the payments processor;

4 transferring the authentication challenge to the remote system;

5 receiving an authentication response from the remote system; and

6 transferring the authentication response to the payments processor.

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